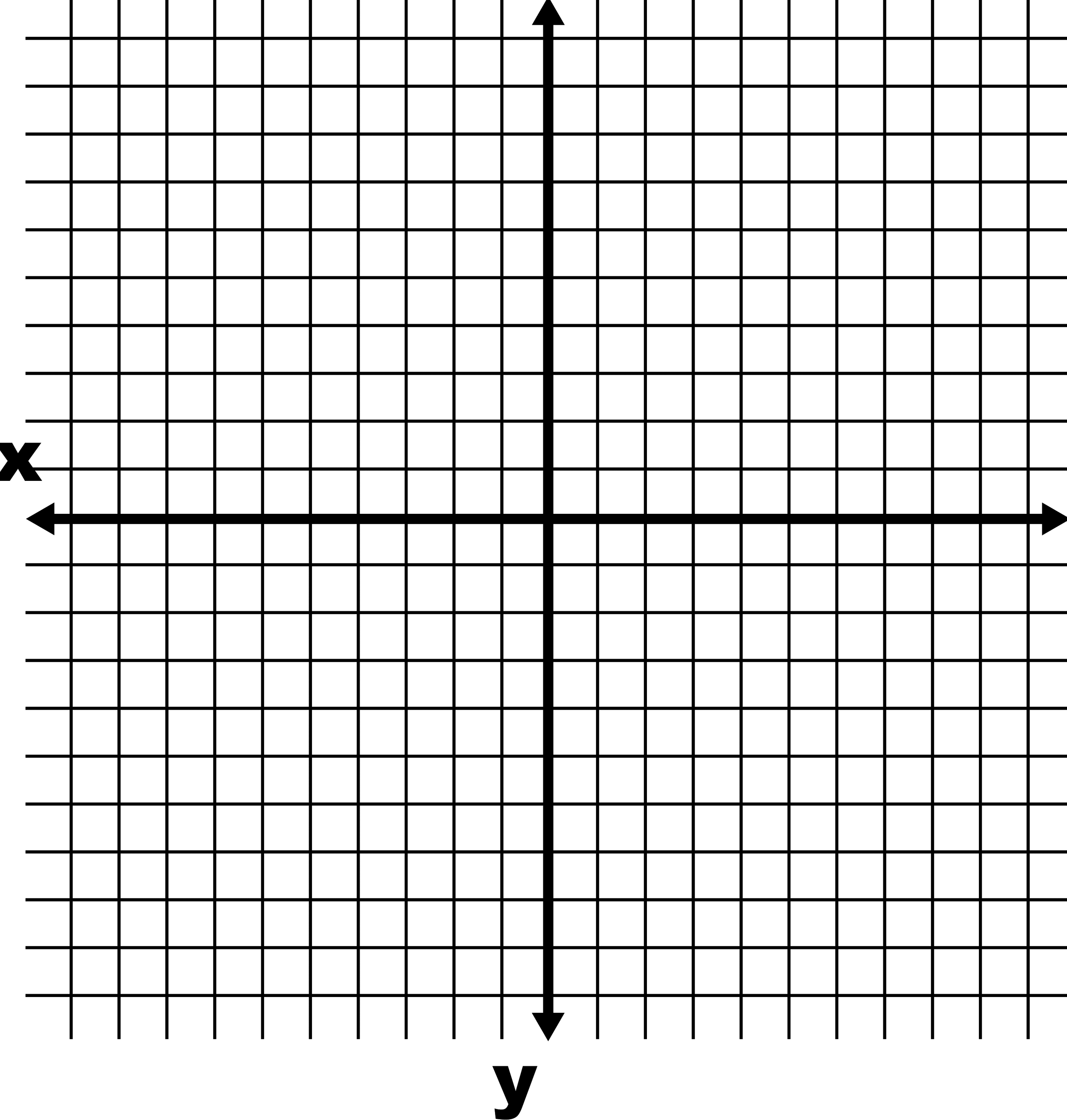
**Graphing Parabolas from Points** Name:

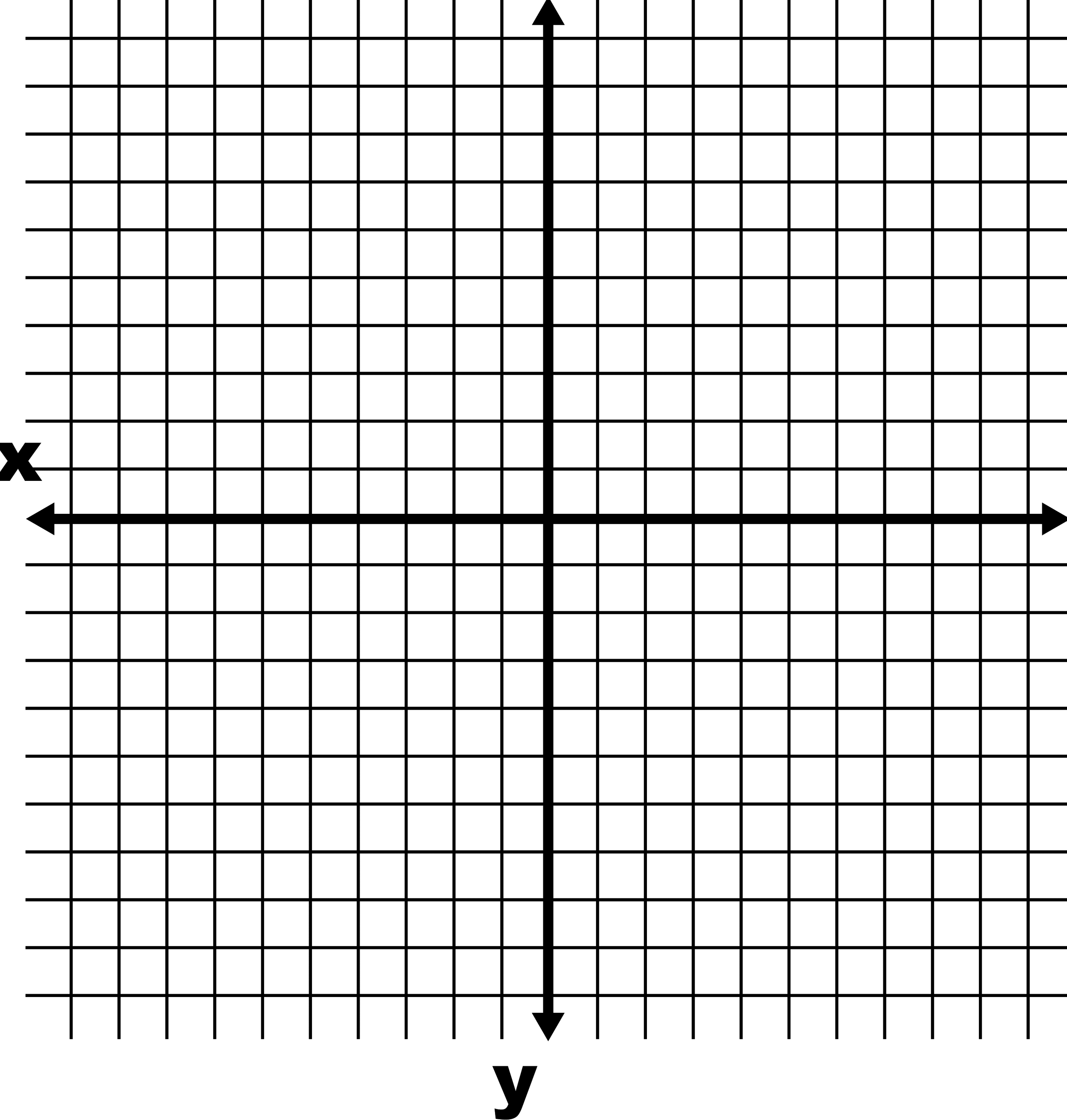
Rodriguez/Alg2H

Use 5 points to sketch a graph of each parabola.

1. Vertex (2, -4); point (3, -3)  
   

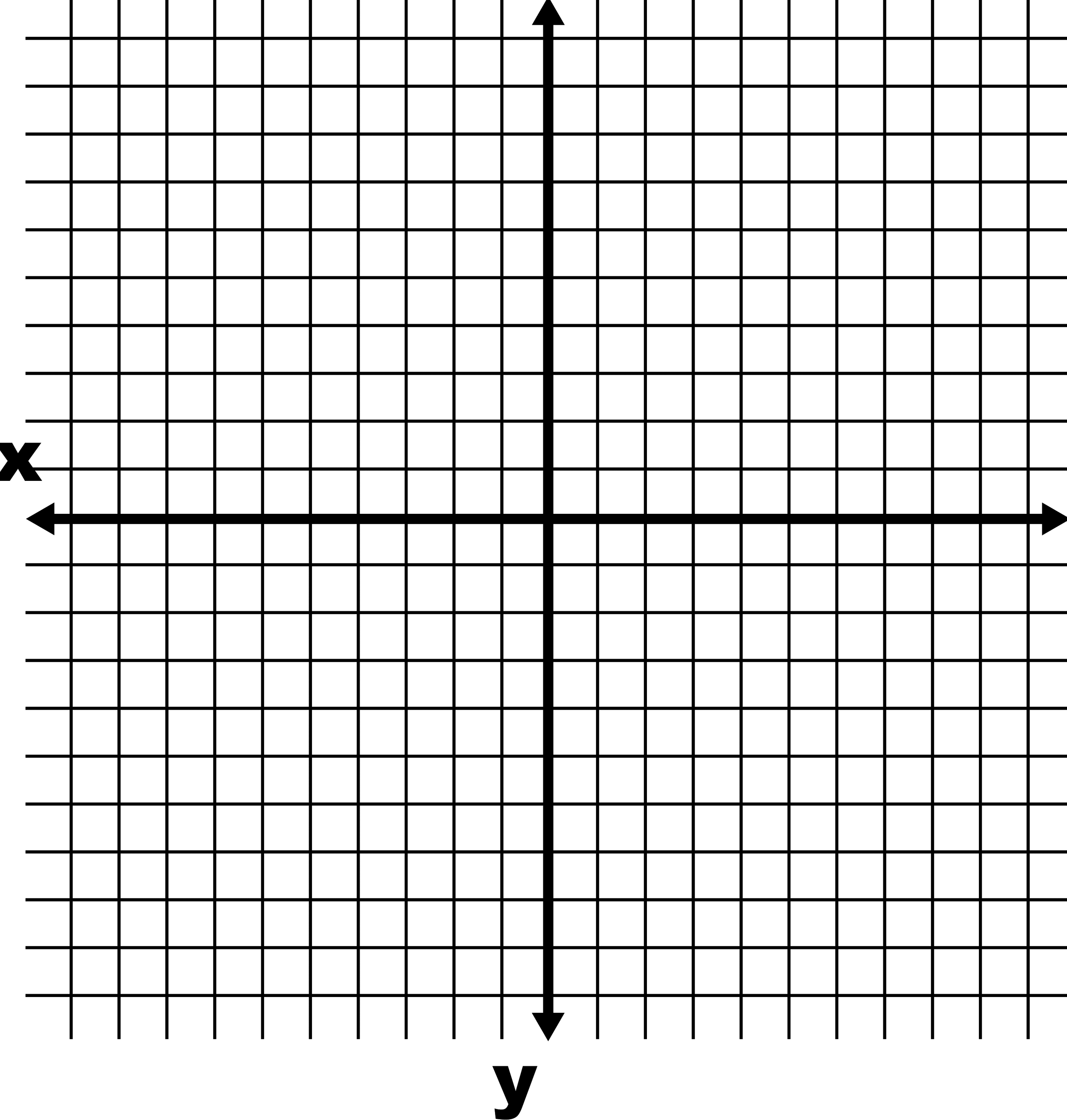
How many *x*-intercepts does the parabola have?

What is the pattern by which the function value changes?

1. Vertex (-1,-1 ); point (1, 7)  
   

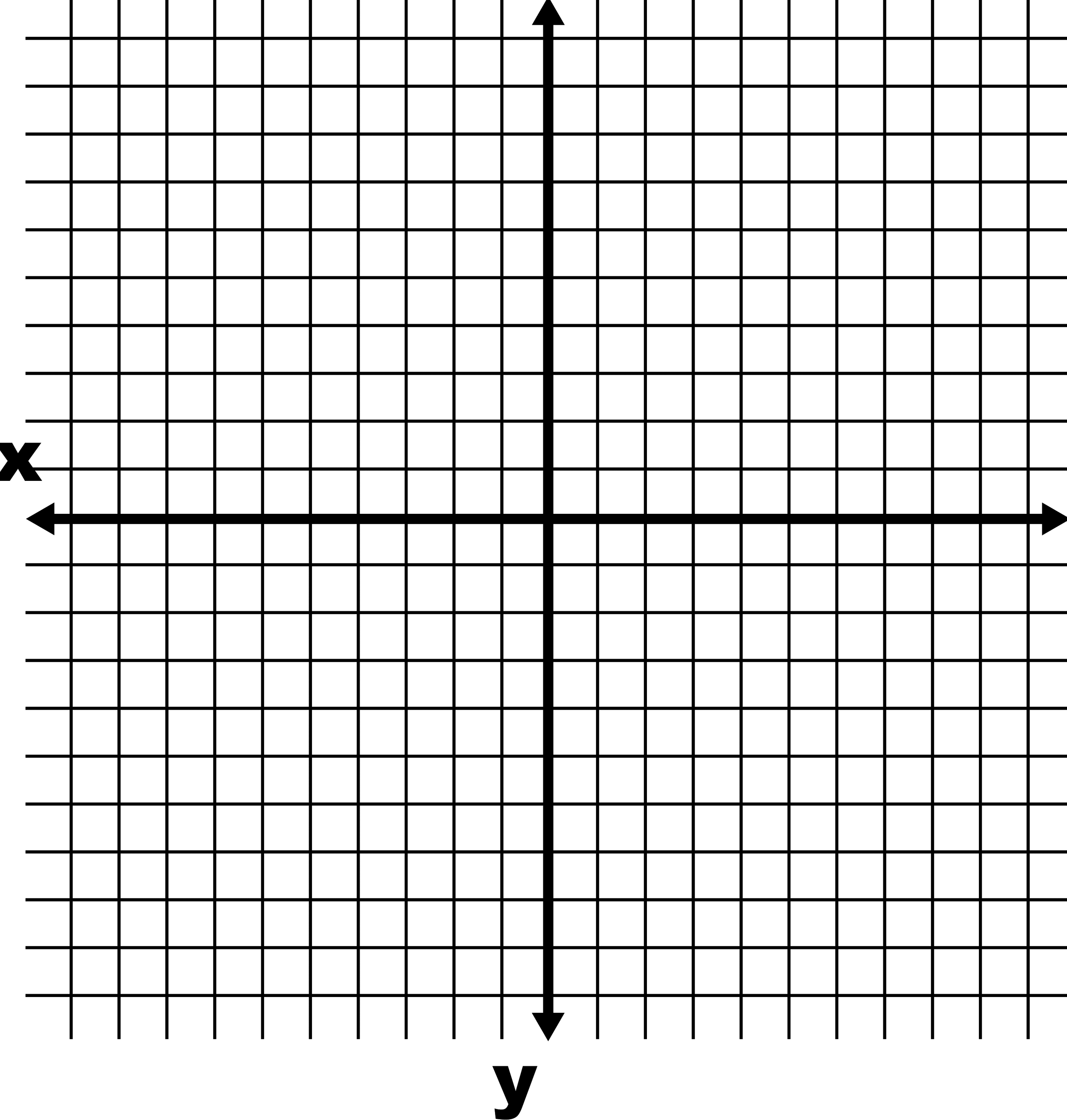
How many *x*-intercepts does the parabola have?

What is the pattern by which the function value changes?

1. Vertex (2, 1), *x*-intercepts 1 and 3  
   

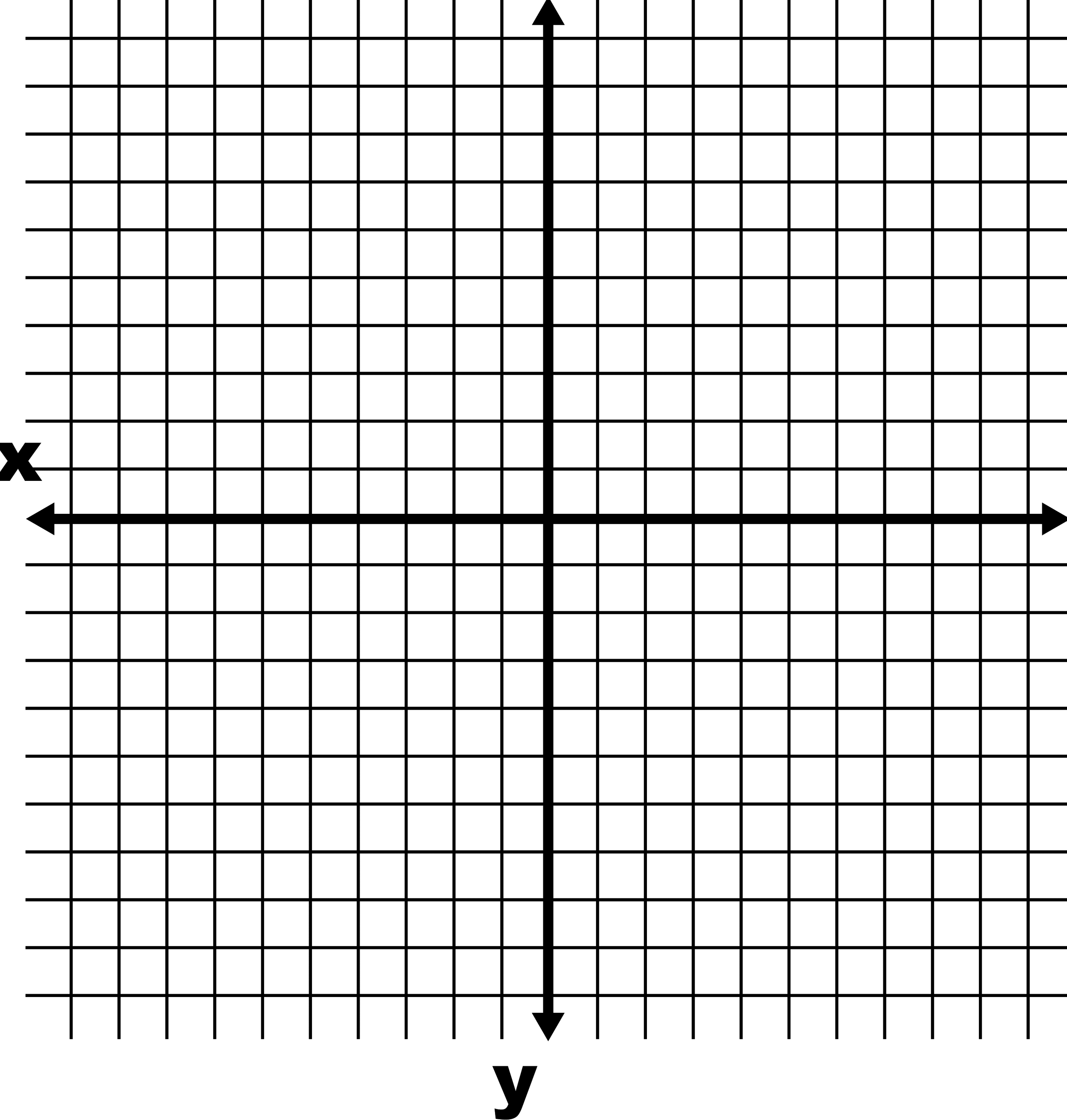
How many *x*-intercepts does the parabola have?

What is the pattern by which the function value changes?

1. Axis of symmetry: *x* = -1, point (1, 1)  
   

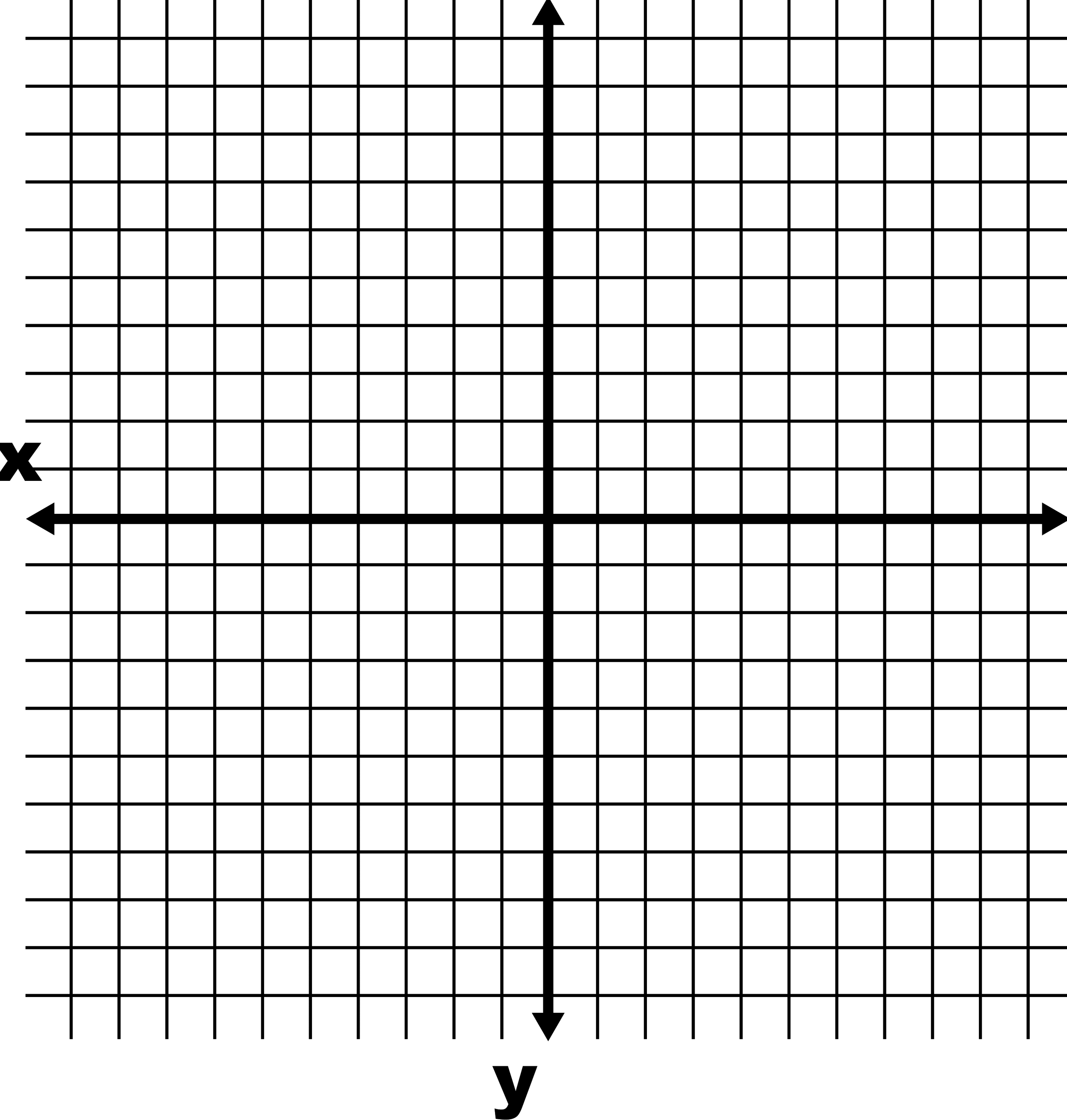
How many *x*-intercepts does the parabola have?

What is the pattern by which the function value changes?

1. *y*-intercept 3; one of two *x*-intercepts at 1  
   

How many *x*-intercepts does the parabola have?

What is the pattern by which the function value changes?

1. *y*-intercept at 5; no *x*-intercepts; increases half as fast as the parent function  
   

How many *x*-intercepts does the parabola have?

What is the pattern by which the function value changes?